



Time Remaining:



Question 1/210

CHEMISTRY >> Alkyl Halides

Q 1

Which one of the following is not a alkyl halide?

A

2-chloropropane

B

1-chlorobutane

C

2-butene

D

4-chlorohexane

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Q 2 How many products of mono-substituted benzene are possible?

A Two

B One

C Three

D None of these

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Q 3 In aromatic carboxylic acids -COOH group is named as _____?

A Substituent

B Parent

C Benzoic acid

D Both b and c

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Q 4 The smallest alkane that shows isomerism is _____?

A Ethane

B Butane

C Pentane

D Isopropane

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Q 5 Which of the statement is incorrect for XeO_4 ?

A four $p\pi-d\pi$ bonds are present

B four $sp^3 - p \sigma$ bonds are present

C It has a tetrahedral shape

D It has a square planar shape

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Q 6 The classification of monohydric alcohols is due to

A hydrogen atom

B carbon atom

C hydroxyl group

D carbonyl group

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Q 7 Intermolecular distance is larger in _____?

A Ionic compounds

B Solids

C Covalent compounds

D Liquids

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Q 8 $[\text{Fe}(\text{CN})_6]^{4-}$ is called as ____?

A Complex compound

B Transition element ion

C Anion

D Complex anion

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Q 9 Nitrogen N_2 molecule has 3 unpaired electron on each atom therefore it shows three bond that are

A 2 sigma & 1 pi bond

B 1 sigma & 2 pi bond

C 3 sigma

D 3 pi bond

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Q 10 The break down of molecular ions from natural products give important information about

A size

B position

C shape

D structure

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Q 11 Any thing under study during a chemical reaction in thermodynamics is called as _____?

A Analyte

B System

C Surrounding

D Boundary

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Q 12 Rate determining step of a chemical reaction which occur in more than one step depends upon the

A fastest step

B Slowest Step

C catalyst used

D Temperature of reaction

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Q 13 grey and white tin co-exist at temperature

A 128 C

B 13.2 C

C 32-38 C

D 95.5 C

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Q 14 Aldehydes and ketones are _____?

A Aromatic compounds

B Acidic compounds

C Carbonyl compounds

D Electrophiles

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Q 15

The sequence of amino acids combined in a peptide chain is called_____.

A

Primary structure

B

Secondary structure

C

Tertiary structure

D

Quaternary structure

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Q 16

which one of them can conduct electricity in solid state

A

diamond

B

graphite

C

Nail

D

iodine

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Q 17 What is the Hybridization of carbon in ethene?

A sp^2

B sp^3

C sp

D None of these

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Q 18

Which of the following enzymes present in yeast helps out in fermentation

A

Diastase

B

Maltase

C

Zymase

D

all of above

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Q 19

During combustion analysis MgClO_4 is used to absorb _____

A

oxygen gas

B

hydrogen gas

C

water vapors

D

alcohol

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Q 20 Which of the following alcohol give iodoform test?

A Propanol

B Methanol

C Ethanol

D Butanol

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Q 21 Octane number of n-heptane is_____?

A 0

B 100

C 40

D 98

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Q 22

The properties of liquid crystals are intermediate b/w crystals and

A

anisotropic liquids

B

nematic liquids

C

isotropic liquids

D

liquids

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Q 23 Isoenzymes catalyze_____?

- A Catalyze different reaction
- B Catalyze same reaction
- C Catalyze any reaction
- D Catalyze reactions that are from different reactions

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Q 24

What is the correct general formula of Grignard reagent?

A

 RMX

B

 R_2MgX

C

 RMgX_2

D

 RMgX

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Q 25

The 'm' quantum number describes the _____ of electron

A

energy level

B

orbital or subshell

C

orientation of orbital

D

Spin of electron

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Q 26

The boiling point of water is lower than HF because of ___ hydrogen bonding

A strong

B moderate

C weak

D constant

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Q 27 Change in concentration per unit time is called

A Equilibrium constant

B rate constant

C Rate of reaction

D All of these

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Q 28

Electrolysis is carried out in

A

A beaker

B

Flask

C

Evaporating Dish

D

Electrolytic Cell

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Q 29

The minimum amount of energy required to remove an electron from its gaseous atom to form an ion is known as

A electron affinity

B ionization energy

C electronegativity

D potential energy

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Q 30

The addition of HBr to an unsymmetrical alkenes follows?

A

Direct addition

B

Markovnikov's addition

C

Anti Markovnikov's addition

D

Dehydration

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Q 31 A system is the _____ part of universe ?

A Real

B Unreal

C Imaginary

D Both real or imaginary

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Q 32

Zero order reactions do not depend upon concentration of

A

products

B

reactants

C

ions

D

radicals

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Q 33 Which is the correct order of decreasing acidity of Lewis acids?

A $\text{BBr}_3 > \text{BCl}_3 > \text{BF}_3$

B $\text{BF}_3 > \text{BCl}_3 > \text{BBr}_3$

C $\text{BCl}_3 > \text{BF}_3 > \text{BBr}_3$

D $\text{BBr}_3 > \text{BF}_3 > \text{BCl}_3$

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Q 34

Carboxylic acid reduction to alcohol can be achieved by using?

A

 H_2/Ni

B

 Pd/C

C

 NaBH_4

D

 LiAlH_4

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Q 35 A chemical reaction has reached a state of dynamic equilibrium at certain temperature, Which of the statement is incorrect

- A Concentration of the reactants remains constant
- B Products are continuously being formed
- C The rate of forward and backward reactions are same
- D The reaction has stopped completely

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Q 36

The increase in size of an anion is due to increase in repulsion of

A electron-proton

B electron-electron

C electron-nucleus

D proton-nucleus

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Q 37 Isoenzymes comes from_____?

A Same sources

B Different organisms

C Same organisms

D None of these

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Q 38

In Peroxides the Oxidation number of Oxygen is

A

-1

B

2

C

-2

D

1

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Q 39

In S_N2 reaction, which of the following species is formed?

A

Transition state

B

Intermediate

C

Carbocation

D

Carbanion

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Q 40 Tetraethyl lead added to fuel to_____?

A Decrease boiling point

B Prevent heating

C Prevent freezing of fuel

D Prevent knocking

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Q 41

What is the empirical formula for the following molecular formula C_5H_{12}

A

C_5H_{12}

B

C_5H_6

C

CH_2

D

$C_{2.5}H_6$

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Q 42

Which of the following is not an Ionic Solid

A

 NaCl

B

 KBr

C

 MgCl_2

D

 CO

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Q 43

Which of the following Compound is not reduced by NaBH_4 ?

A

Acetaldehyde

B

Acetone

C

Carboxylic acid

D

Alkene

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Q 44

The forces which are most prominent in mixture of Non-polar molecule are _____?

A

Dipole dipole forces

B

Debye forces

C

H-bonding

D

London dispersion forces

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Q 45

It is the brown colored gas

A

 N_2

B

 NO_2

C

 H_2

D

 O_2

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Q 46

With impurities like P and S the open hearth furnace is lined with

A

 SiO_2

B

 Fe_2O_3

C

 FeO

D

 CaO, MgO

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Q 47

Formation of Grignard reagent from alkyl halide and Mg metal takes place in _____?

A

Water

B

Alcohol

C

Anhydrous ether

D

Carbon tetrachloride

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Q 48

Those elements in which d or f orbitals are in the process of completion are called

A

Transition elements

B

Typical transition elements

C

Outer transition elements

D

Inner transition elements

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Q 49

If a certain atom gains electrons its oxidation number will be

A Negative

B Positive

C zero

D Unity

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Q 50

The measurement of the extent to which electron cloud is distorted is termed as?

A

Polarizability

B

Molarity

C

Induction

D

Dispersion

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Q 51 Tetra ethyl addition to petrol is example of:

A Positive catalysis

B Negative catalysis

C Both a & b

D None

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Q 52 Which of the following is true about arenes?

A Low melting, and low boiling points

B High melting, and high boiling points

C Low melting, and high boiling points

D High solubility in polar solvents

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Q 53

Slope of the curve can be determined by

A

Area under the curve

B

calculating length of curve

C

Drawing a tangent to the curve

D

All of these

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Q 54

If no of moles of products are more than those of reactants, volume in the equilibrium expression appears in

A denominator

B Numerator

C As Exponent

D None of these

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Q 55 Which of the following does not contain COOH group?

A Acetone

B Propanoic acid

C Formic acid

D Picric acid

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Q 56

Reaction of ethylmagnesium bromide with acetone produces?

A

Primary alcohol

B

Secondary alcohol

C

Tertiary alcohol

D

Methyl alcohol

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Q 57 Which of the following is true in case of induced fit model?

A the substrate changes its shape slightly

B the enzyme changes its shape slightly

C none of them changes shape

D both changes shapes

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Q 58

Decreasing V_{max} in uncompetitive inhibition also decreases?

A

K_m

B

K_o

C

V_o

D

both A and B

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Q 59

Blood group AB can be donated to:

A

A

B

AB

C

B

D

All of the above

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Q 60

The lighter, inner section of the brain is called:

A

white matter

B

Gray matter

C

Reflex arc

D

Medulla

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Q 61

Rapid movement of leaves of mimosa on touching is an example of?

A

Tropic movements

B

Growth movement

C

Nastic movement

D

Turgor movement

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Q 62

A neural pathway that controls an action reflex is called:

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

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Q 63

Paramyxoviruses cause which disease?

A

influenza

B

smallpox

C

mumps and measles

D

AIDS

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Q 64

In parthenocarpy which levels are high in ovaries?

A

gibberellins

B

cytokinins

C

auxins

D

all of these

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Q 65

The ability to pass on genes is defined as which of the following?

A

differential reproduction

B

evolution

C

natural selection

D

fitness

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Q 66

Which of the following is a chemical link between catabolism and anabolism?

A AMP

B ATP

C ADP

D All of these

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Q 67

What is the resolution power of a compound microscope?

A

2 micrometer

B

2-4A

C

24 micrometer

D

24A

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Q 68

The attraction between water molecules and cell wall of xylem is termed as:

A

cohesion

B

tension

C

adhesion

D

imbibition

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Q 69

What are Autophagosomes?

A

Those lysosomes which eat parts of their own cells to generate energy.

B

Those lysosomes which eat old and worn out cellular organelles.

C

Lysosomes which help in extracellular digestion

D

both a and b

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Q 70

The larger dust particles in the air are trapped by :

A

Hair

B

Mucous

C

both A and B

D

larynx

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Q 71

Which is not the characteristic of triploblasts?

A

They may be coelomate pseudocoelomate or acoelomate

B

They are included in grade bilateria

C

All of them have digestive system

D

All of them have blood vascular system

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Q 72

What is the name of the tube that carries the sperm from the testes to the urethra?

A

Penis

B

seminal vesicles

C

Prostate gland

D

sperm duct

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Q 73

The first group of invertebrates to have a closed circulatory system:

A

Nematodes

B

Platyhelminthes

C

Echinodermata

D

None of the above.

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Q 74

When one can hydrolyze the proteins, these could be the products

A

amino acids

B

nucleotides

C

fatty acids

D

monosaccharides

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Q 75

Chlorophyll molecule contains which ion as a central metal ion?

A

Fe²⁺

B

Zn²⁺

C

Cu²⁺

D

Mg²⁺

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Q 76

Reflex action is controlled by

A

Peripheral nervous system

B

Central nervous system

C

autonomic nervous system

D

Circulatory system

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Q 77

Choose one of the actions caused by skeletal muscle:

A constriction of blood vessel

B heartbeat

C dilation of pupil

D eye movements

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Q 78 When a virus enters a cell and incorporates its RNA or DNA into host DNA, what is this stage called?

A lysogeny

B fermentation

C symbiosis

D synergism

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Q 79

How does human sperm locomote?

A

flagella

B

cilia

C

pilli

D

all of these

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Q 80

The venous blood in tissues has carbon dioxide:

A

19.6 ml/100 ml of blood

B

50 ml/100 ml of blood

C

54 ml/100 ml of blood

D

96 ml/100 ml of blood

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Q 81

Evolution of pollen tube is parallel to the evolution of which of the following?

A

leaf

B

flower

C

seed

D

plant

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Q 82

Many types of lipids exist in nature. Triglyceride is also known as?

A

Neutral lipid

B

natural lipid

C

wax

D

all of these

81

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Q 83

Change in the frequency of alleles at a locus that occurs by chance is which of the following phenomenon?

A

mutation

B

selection

C

non-random mating

D

genetic drift

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Q 84 Humans regulate their internal body temperature within a very narrow range. This is an example of?

A homeostasis

B evolution

C genetics

D metabolism

83

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Q 85

The number of afferent lymph vessels in a lymphatic system is:

A

1

B

2

C

3

D

Numerous

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Q 86

Gut in pseudocoelomates is made from which of the following?

A

Ectoderm

B

Mesoderm

C

Endoderm

D

all of these

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Q 87

Cartilage has living cells that are called:

A

Osteocytes

B

Osteoclasts

C

chondrocytes

D

Osteoblasts

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Q 88

The matrix surrounding the grana in the inner membrane of the chloroplast is called?

A

cytosol

B

frets

C

stroma

D

intergranal lamellae

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Q 89

Flagella are basically composed of a

A

protein

B

chemical

C

enzyme

D

None of above

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Q 90

Which of the following is found in bacterial cells, but not in mature red blood cells?

A Nucleus

B DNA

C cell membrane

D mitochondria

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Q 91

Which bond provides stability to complex carbohydrate molecules?

A

C-H

B

C-N

C

C-O

D

C-C

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Q 92

A hydrostatic skeleton is present in _____ .

A

Arthropods

B

Fishes

C

Annelids

D

Nematodes

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Q 93

What is an example of an oviparous mammal?

A

Penguin

B

Shark

C

Spiny anteater

D

Elephant

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Q 94

The most important photosynthetic pigment is?

A

Chlorophyll a

B

Chlorophyll b

C

Xanthophyll

D

Carotenes

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Q 95

Edward Jenner began inoculating humans with material from lesions caused by which disease?

A chickenpox

B smallpox

C avian pox

D cowpox

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Q 96

Carolus Linnaeus was believer of which of the following?

A

special creation

B

natural selection

C

catastrophism

D

Inheritance of acquired characters

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Q 97

The smaller tubes within the chest cavity having cartilaginous plates are known as

A

pharynx

B

bronchioles

C

bronchi

D

Both B and C

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Q 98

What are the different stages of the calvin cycle?

A

Carbon fixation

B

RUBP

C

Reduction

D

A and C

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Q 99

Photorespiration in C4 plants starts from

A

phosphoglycerat

B

phosphoenolpyruvate

C

glycerate

D

glycine

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Q 100

Which of the following is pure form of cellulose?

A

silk

B

wool

C

cotton

D

paper

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Q 101

Where does the dark reaction of photosynthesis takes place?

A

Thylakoid

B

Grana

C

Stroma

D

all of these

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Q 102

Substrate for succinic dehydrogenase is:

A

Malonic acid

B

Malic acid

C

Fumaric acid

D

Palmitic acid

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Q 103

According to lock and key model the substrate acts as a?

A

lock

B

key

C

both a and b

D

none of these

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Q 104

Darwin was greatly influenced by

A

essay on population by Malthus

B

Lamarck's theory

C

L-Miller's evidence for origion of life

D

Mendel's paper on inheritance

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Q 105

Ribosomes are chemically composed of which of the following?

A

protein

B

DNA

C

RNA

D

both a and c

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Q 106

Catalysts that increase the rate of biological chemical reaction are called?

A proteins

B vitamins

C enzymes

D minerals

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Q 107

Inheritance in man is traced by which of the following?

A

Mathematical method

B

Statistical method

C

Genetic method

D

Pedigree method

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Q 108

The stretch reflex is a:

A

Monosynaptic reflex

B

Polysynaptic reflex

C

Hemi Synaptic reflex

D

None of these

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Q 109

The product of succinic acid by the action of the enzyme is which of the following?

A

fumaric acid

B

malonic acid

C

citric acid

D

pyruvic acid

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Q 110

Which statement correctly identifies a competitive inhibitor and a substrate molecule?

A They have the same chemical properties.

B They have the same physical properties.

C They have the same chemical structure.

D None of the above.

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Q 111

The follicle cells, after release of the egg, are modified to form a special structure called:

A Endometrium

B Perimetrium

C Corpus luteum

D None of these

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Q 112

Which molecule passes the mitochondrial membrane to begin the krebs cycle?

A

ATP

B

ADP

C

NADH

D

Acetyl coA

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Q 113

Which of the following characters is not typical to class Mammalia?

A

Alveolar lungs

B

Seven cervical vertebrae

C

Thecodont dentition

D

Ten pairs of cranial nerves

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Q 114 Which substances can cross plasma more easily?

A starch

B protein

C lipid soluble

D ions

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Q 115

Which of the following is a compensation point?

A

Leaves respire and utilize O_2 and release CO_2 .

B

Photosynthesis and respiration occur at same rate. So there is not net exchange of gases between atmosphere and plants.

C

Rate of photosynthesis increases, so do the O_2 production, with a net release of oxygen coupled with the uptake of CO_2

D

Rate of respiration becomes more than rate of photosynthesis. 16 Net yield of H_2O in Photosynthesis is

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Q 116

An example of convergent evolution is best represented by which of the following?

A

Teeth of domestic dog, teeth of a wolf

B

Wings of *Geospiza magnirostris*, wings of *Geospiza fortis*

C

Wing of Hawkmoths, the wing of hawks

D

all of these

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Q 117

The smallest bacterium is

A

Mycoplasma

B

Lactobacillus

C

Pseudomonas

D

Escherichia coli

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Q 118

Fertilization of human egg occurs in:

A

ovary

B

uterus

C

oviduct (fallopian tube)

D

cervix

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Q 119

Which type of sensory structures carrying the touch sensations are present in papillae extending into ridges of the fingertips?

A Hair end organs

B Pacinian corpuscles.

C Meissner's Corpuscles

D all of these

118

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Q 120

Your neighbor has a flower garden in which there are red flowers and white flowers. These flowers are diploid organisms, and flower color is an autosomal trait. The gene for red flowers (R) is dominant, while the gene for white flowers (r) is recessive. Which of the following could be the genotype of a red flower?

A Rr B RR, Rr , or rr C rr D RR or Rr

119

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Q 121

Which of these is the best treatment for osteoarthritis?

A

bed rest

B

exercise

C

cast

D

None of these

120

SKIPPED QUESTIONS 

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Q 122

Structures that were once functional in the past but no longer serve a purpose due to evolutionary adaptations and physiological changes are referred to as?

A

vestigial

B

analogous structures

C

homologous structures

D

none of these

121

SKIPPED QUESTIONS 

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Q 123

A long polypeptide that is cut up to generate several small proteins

A

polyprotein

B

polymerase

C

polyisomerase

D

none of these

122

SKIPPED QUESTIONS 

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Next Question 

Q 124

The maximum capacity of 100 ml blood to absorb oxygen is:

A 10 ml

B 20 ml

C 30 ml

D 45 ml

123

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Q 125

A closed container contains an ideal gas. Which of the following changes will result in decrease in temperature?

A volume = decrease temperature = decrease

B volume = decrease temperature = increase

C volume = increase temperature = decrease

D volume = increase temperature = increase

124

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 126

Phase difference between two particles of a medium lying between two consecutive nodes is:

A Zero

B $\pi/2$

C $\pi/4$

D π

125

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 127

Ohm's law is valid at _____ temperatures

A

Constant

B

Varying

C

All of them

D

None of them

126

SKIPPED QUESTIONS 

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Next Question 

Q 128

$$\cos \theta = \Phi /$$

A

BA

B

A

C

B

D

 B^2

127

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Q 129

The rate of change of angular velocity is called:

A

angular displacement

B

angular acceleration

C

angular velocity

D

acceleration

128

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Q 130

If a car starts from rest and reaches 20 m/s velocity in 10 m distance then acceleration is

A

 20 m/s^2

B

 10 m/s^2

C

 5 m/s^2

D

 2 m/s^2

129

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Q 131

Which is the unit of energy

A

joule

B

erg

C

unit(Kwh)

D

all of these

130

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Q 132

What is the unit of decay constant?

A

second

B

minute

C

hour

D

 $(\text{sec})^{-1}$

131

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Q 133 If two point charges of charge q_1 and q_2 are placed at distance d . The force between them is proportional to:....

A $q_1 + q_2$

B $q_1 - q_2$

C $q_1 \text{ ----- } q_2$

D $q_1 \cdot q_2$

132

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Q 134

Which element has three isotopes?

A

H

B

O

C

Cl

D

none of these

133

SKIPPED QUESTIONS 

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Q 135

According to Faraday law induced voltage is produced by change in

A

electric field

B

magnetic field

C

both a or b

D

position

134

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Q 136

Rectifier is a device which converts

A

AC to DC

B

DC to AC

C

AC to triangular current

D

DC to triangular current

135

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Q 137

As the wavelength of light used increases, the distance between bright fringes in the interference pattern:....

A

increases

B

decreases

C

remains same

D

none of these

136

SKIPPED QUESTIONS 

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Q 138

What does the constant N represent in the equation of state for an ideal gas $PV=NkT$?

A number of molecules of gas

B number of moles of the gas

C number of nucleons

D number of protons

137

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 139 Work done in pulling up a block of wood weighing 2 kN for a length of 10 m on a smooth plane inclined at an angle of 15 degree with the horizontal is

A 4.36 kJ

B 5.17 kJ

C 8.91 kJ

D 9.82 kJ

138

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 140

The sensitivity of a potentiometer can be increased by_____

A

increasing the e.m.f. of the primary cell

B

increasing the potential gradient

C

increasing the length of the potentiometer wire

D

decreasing the length of the potentiometer wire

139

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 141

A stationary wave is set up in a pipe of length L , which is open from both ends. There are three nodes. How many antinodes are there in the stationary wave?

A 2

B 3

C 4

D 6

140

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 142 Among the following four spectral regions, in which of them, the photon has the highest energy in?

A infrared

B violet

C blue

D ultraviolet

141

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Q 143

An arc of length equal to the circumference of a circle subtends an angle?

A

 π radian

B

 2π radian

C

 $\pi/2$ radian

D

 4π radian

142

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 144

A transformer is used to light 100 W 25 volt lamp from 250 Volt ac mains. The current in the main cable is 0.5 A. Calculate the efficiency of the transformer

A 50%

B 60%

C 90%

D 80%

143

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 145

Electric field lines

A

never cross each other

B

can cross each other

C

depends on shape of charge

D

Not enough information

144

SKIPPED QUESTIONS 

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Next Question 

Q 146

If the system goes from two different paths to same final state then change in internal energy for both systems is _____

A

same

B

different

C

may be same

D

Not enough information

145

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 147

Maximum emf generated in a generator is

A

$$\epsilon_0 = N\omega AB \sin \theta$$

B

$$\epsilon_0 = \epsilon \sin \theta$$

C

$$\epsilon = \epsilon_0 \sin \theta$$

D

$$\epsilon_0 = N\omega AB$$

146

SKIPPED QUESTIONS 

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Q 148

The frequency of the incident photon after compton effect will :

A remain constant

B Increases

C Decreases

D None of these

147

SKIPPED QUESTIONS 

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Q 149

Emf becomes equal to terminal potential difference when

A

circuit is closed

B

current is max

C

circuit is open

D

all of these

148

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Next Question 

Q 150

The unit of electric flux density is

A

 N/C

B

 V/m

C

 Nm

D

A and B

149

SKIPPED QUESTIONS 

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Q 151

In full wave rectifier with input frequency 50 Hz the ripple in the output is mainly of frequency

A 25 Hz

B 50Hz

C 100Hz

D zero

150

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Q 152

A current of 16 amperes divides between two branches in parallel of resistances 8 ohms and 12 ohms respectively. The current in each branch is

A 6.4 A, 6.9 A

B 6.4 A, 9.6 A

C 4.6 A, 6.9 A

D 4.6 A, 9.6 A

151

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 153

In a standing waves, the distance between two consecutive nodes is:

A

equal to one wavelength

B

equal to two wavelength

C

equal to half of wavelength

D

equal to quarter of wavelength

152

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Q 154

Electron cannot reside inside nucleus is explained by

A

Compton effect

B

Photoelectric effect

C

Zeeman effect

D

Uncertainty principle

153

SKIPPED QUESTIONS 

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Q 155

The bridge rectifier is preferred to an ordinary two diode full wave rectifier because

A

it needs much smaller transformer for the same output

B

no center tap required

C

less PIV rating per diode

D

All of the above

154

SKIPPED QUESTIONS 

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Q 156

A simple pendulum has mass M , length L and time period T . What is the period of oscillation of the pendulum with mass $4M$ and length $0.49L$?

A $0.7T$ B T C $2T$ D $3T$

155

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 157

The core of earth is hot due to

A

fission reactions

B

fusion reactions

C

frictional forces

D

all of these

156

SKIPPED QUESTIONS 

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Next Question 

Q 158

A mixer grinder rotates clockwise it's angular velocity will be :

A

zero

B

negative

C

uniform but not zero

D

positive

157

SKIPPED QUESTIONS 

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Next Question 

Q 159

Peak voltage in the output of half wave rectifier is 10V so dc component of output voltage is

A $10\sqrt{2}$

B $10/\sqrt{2}$

C $10/\pi$

D 10π

158

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Q 160

Electric field lines from a point charge _____ each other

A

Converges towards

B

diverges away from

C

remain equispaced with

D

None of these

159

SKIPPED QUESTIONS 

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Next Question >

Q 161

In ground state, high energy photons will be

A

reflected

B

absorbed

C

transmitted

D

any of these

160

SKIPPED QUESTIONS 

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Next Question 

Q 162

Projectile when launched at 90 degree with respect to horizontal then its trajectory is

A

Parabolic

B

periodic

C

hyperbolic trajectory

D

linear

161

SKIPPED QUESTIONS 

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Next Question 

Q 163

Current and magnetic field are always

A

perpendicular

B

parallel

C

circular

D

none of these

162

SKIPPED QUESTIONS 

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Next Question 

Q 164

Motional emf induced in a coil is independent of

A

number of turns

B

change in flux

C

change in time

D

Resistance

163

SKIPPED QUESTIONS 

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Next Question 

Q 165

Ozone reflects ____ radiation from sun back into space

A

IR

B

UV

C

alpha

D

all of these

164

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Q 166

A force of $F = 1 + y$ N is acting in y direction, work done by this force to move the particle from $y = 0$ to $y = 1$ m

A 0.5 J

B 1 J

C 2 J

D 1.5 J

165

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 167

A square loop of side 4 m is placed in magnetic field of 10 T, surface of the loop is making angle with the field 60 degree. What will be the flux?

A 160 weber

B 80 weber

C 40 weber

D 80 weber

166

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 168

If we are standing in bus and when conductor's apply a brake then we feel

A pseudo force pushes backwards

B pseudo force pushes forwards

C real force pushes backwards

D real force pushes forwards

167

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Q 169

Which rays need medium to travel

A

x-rays

B

beta rays

C

gamma rays

D

no radiation need medium to travel

168

SKIPPED QUESTIONS 

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Q 170

The flux is the region where magnetic field

A

changes direction

B

changes strength

C

changes polarity

D

no change occur

169

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Next Question 

Q 171

Half life of Au-198 is 2.7 days. What will be the activity of 1 mg of Au-198?

A

120 Ci

B

200 Ci

C

240 Ci

D

280 Ci

170

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 172

The sun gives light at the rate of 1500 W/m^2 of area perpendicular to the direction of light. Assume the wavelength of light as $5000 \text{ \AA}$. Calculate the number of photons/s arriving at 1 m^2 area at that part of the earth.

A 4.770×10^{21} B 3.770×10^{11} C 3.770×10^{21} D 3.770×10^{22}

171

SKIPPED QUESTIONS 

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Next Question >

Q 173

A tuning fork A produces 4 beats with another tuning fork B. if the frequency of tuning fork B is 320 Hz, then the frequency of tuning fork A is:

A 320×4 B $320 / 4$ C $320 + 4$

D 320

172

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 174

Mass m_1 has a velocity of 0 m/s and mass m_2 has a velocity of 5 m/s . Mass $m_1 > m_2$. Which one has larger interior?

A m_2

B m_1

C both m_1 and m_2

D not enough information

173

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Q 175

Kinetic energy of the body is increased by the 21 %. what is the percentage change in the linear momentum of the body

A 0.21

B 0.22

C 0.11

D 0.1

174

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Q 176

If a cell of emf 2V and internal resistance 0.5 ohm is connected across a resistance R, the current that flows is same as that when a cell of emf 1.5 V and internal resistance 0.3 ohm is connected across the same resistor. Then $R =$ _____ Ohm.

A 0.3

B 0.6

C 0.5

D 0.75

175

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 177

The phase angle between two points is 3π . The distance between these points is 15 cm. What is the wavelength of the wave?

A 30 cm

B 45 cm

C 5 cm

D 10 cm

176

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Q 178

For a metal rod of length L and moving with speed v in perpendicular to magnetic field then motional emf at its end is

A lvB B lvB^2 C lv^2B

D None of these

177

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 179

In a centre tap full wave rectifier if V_m is the peak voltage across the secondary of transformer, the maximum voltage across reverse bias is

A V_m

B $V_m/\sqrt{2}$

C $2V_m$

D $V_m/3$

178

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 180

The activity of a certain nuclei decreases to 15 % of its original value in 10 days. Find its half life?

A

2 days

B

2. days

C

3.65 days

D

4 days

179

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 181

I found this bangle (A) while digging (B) in the backyard.(C) I don't know who it belonged to. (D)

A I found this bangle

B while digging

C in the back yard.

D I don't know who it belonged to.

180

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 182 Michael _____ absent yesterday.

A is

B was

C were

D being

181

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 183

_____ anyone _____ a pencil I could borrow?

A

do... have

B

Does.. have

C

Do.. has

D

Does.. has

182

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 184 When I was young, I _____ (use) play cricket a lot.

A use

B used

C used to

D use to

183

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 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 185

Choose the correct sentence.

A Dr Hussain works at city hospital in gulberg.

B Dr Hussain works at City Hospital in Gulberg?

C Dr Hussain works at City Hospital in Gulberg.

D Dr Hussain works at city hospital in Gulberg.

184

SKIPPED QUESTIONS 

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Next Question 

Comprehend key vocabulary

Q 186

Could you _____ a photo of me in front of this building? I really like the background.

A take

B check

C make

D paint

185

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 187 Jane _____ to bed at 10 o' clock on weekdays.

A goes

B is going

C go

D going

186

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 188

Choose the correct sentence.

- A The train stopped at Karachi, Hyderabad, Bahawalpur, Multan and Lahore before it reached Rawalpindi.
- B The train stopped at Karachi, Hyderabad, bahawalpur, Multan and Lahore before it reached rawalpindi.
- C The train stopped at Karachi Hyderabad Bahawalpur, Multan and Lahore before it reached Rawalpindi.
- D The train stopped at Karachi, Hyderabad, Bahawalpur multan and Lahore before it reached rawalpindi.

187

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 189

I have

A

I've

B

Ive

C

I'hve

D

Ih've

188

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 190

I don't want to go.

A

simple

B

negative

C

complex

D

None

189

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 191

I _____ Karachi by the next week.

A shall have visited

B shall be visited

C shall has visit

D none

190

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of articles and prepositions

Q 192

The baby cried most of _____ night.

A

a

B

an

C

the

D

no article

191

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 193

Choose the correct spelling of the word

A

irresistable

B

irresistible

C

iresistible

D

irresistibel

192

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 194 Bilal _____ (live) with his brother.

A lives

B is living

C has lived

D had lived

193

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of articles and prepositions

Q 195

Danial is playing tennis _____ Sunday.

A

in

B

on

C

at

D

of

194

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 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 196

Choose the correct sentence.

A Mother said "leave the dishes on the table until we have finished eating."

B Mother said "Leave the dishes on the table until we have finished eating."

C Mother said, "Leave the dishes on the table until we have finished eating."

D Mother said, leave the dishes on the table until we have finished eating.

195

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197

Choose the correct spelling of the word

A

adress

B

address

C

addres

D

adrrss

196

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 198

Find the error?

A

The staff at the university

B

library deserve recognition

C

for helping to locate

D

the many sources needed for the successful completion of my doctoral dissertation.

197

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 199 Sara _____ (unlock) the door and _____ (go) into her apartment.

A unlocking... going

B unlocked... went

C unlocked... gone

D unlocks... is going

198

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 200

I'm now going to give you 10 tips for running a really successful web site.

A invaluable

B valueless

C unworthy

D unprofitable

199

SKIPPED QUESTIONS 

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Next Question 

Fact Checking

Q 201

Fact1 All drink mixes are beverages Fact 2 All beverages are drinkable Fact 3 All beverages are red If the above three statements are facts than which of the following statement will also be a fact I. Some drink mixes are red II. All beverages are drink mixes. III. All red drink mixes are drinkable

- A I only
- B II only
- C III only
- D None of them is a fact

200

SKIPPED QUESTIONS 

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Next Question >

Verbal reasoning

Q 202 Statements (I) She topped in her collage (II) She is hard-working)

- A both statements are of some common cause
- B statement 1 is the cause then 2 is its effect
- C statement 2 is the cause then 1 is its effect
- D both of the statements are effect of independent causes

201

SKIPPED QUESTIONS 

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Next Question 

Analogies

Q 203

As attractive is to beauty so, hope is to

A

Faith

B

Politely

C

Talk

D

Happiness

202

SKIPPED QUESTIONS 

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Next Question 

Statement and Argument

Q 204

Statement Should there be a total ban on tobacco products and smoking in India? Arguments (I) Yes. It is wrong to smoke away millions of money. (II) No. It will throw thousands of workers in the tobacco industry out of employment. (III) No. The government will lose huge amount of money as it will not earn by way of taxes on these products.

- A None is strong
- B Only I and II are strong
- C Only II is strong
- D Only II and III are strong

203

SKIPPED QUESTIONS 

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Next Question >

Complete the series

Q 205

CMM, EOO, GQQ, _____, KUU

A

GRR

B

GSS

C

ISS

D

ITT

204

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Dependent Causes/ Independent Causes/

Q 206

Statement: The life today is too fast, demanding and full of variety in all aspects which at times leads to stressful situations. Number of suicide cases among teenagers is on increase.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

205

SKIPPED QUESTIONS 

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Next Question 

Verbal Classification

Q 207

Number of subsets of a set of order three is

A

4

B

8

C

6

D

Both A and B

206

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Dependent Causes/ Independent Causes/

Q 208

I. There are orders by the high court to clean Karachi. II. More than 500 people died in Karachi due to land pollution.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect.
- C Both statements I and II are independent causes
- D Both statements I and II are the effects of independent cause.

207

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Next Question 

Directions to solve

Q 209

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : "Please do not wait for me, I may be late, start taking lunch as soon as the guests arrive." - A message from a Director of a Company to his office managers. Assumptions : I. Keeping guests waiting is not desirable. II. Lunch may not be ready in time.

A Only assumption I is implicit

B Only assumption II is implicit

C Either I or II is implicit

D Both A and B

208

SKIPPED QUESTIONS 

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Next Question >

Complete the series

Q 210

Discernible and Palpable have _____ number of same letter

A 2

B 3

C 5

D 4

209

SKIPPED QUESTIONS 

 Previous Question

Submit

Q1 Which one of the following is not a alkyl halide?

A 2-chloropropane

B 1-chlorobutane

C 2-butene

D 4-chlorohexane

< Previous Question

Next Question >

Q2 A mixer grinder rotates clockwise it's angular velocity will be :

A zero

B negative

C uniform but not zero

D positive

< Previous Question

Next Question >

Q3 Change in concentration per unit time is called

A Equilibrium constant

B rate constant

C Rate of reaction

D All of these

< Previous Question

Next Question >

Q4 I _____ Karachi by the next week.

A shall have visited

B shall be visited

C shall has visit

D none

< Previous Question

Next Question >

Q5 The larger dust particles in the air are trapped by :

A Hair

B Mucous

C both A and B

D larynx

< Previous Question

Next Question >

Q6 Cartilage has living cells that are called:

A Osteocytes

B Osteoclasts

C chondrocytes

D Osteoblasts

< Previous Question

Next Question >

Q7 Edward Jenner began inoculating humans with material from lesions caused by which disease?

A chickenpox

B smallpox

C avian pox

D cowpox

< Previous Question

Next Question >

Q8 How many products of mono-substituted benzene are possible?

A Two

B One

C Three

D None of these

< Previous Question

Next Question >

Q9 The break down of molecular ions from natural products give important information about

A size

B position

C shape

D structure

< Previous Question

Next Question >

Q10

Which of the following enzymes present in yeast helps out in fermentation

A

Diastase

B

Maltase

C

Zymase

D

all of above

[< Previous Question](#)[Next Question >](#)

Q11 Isoenzymes comes from_____?

A Same sources

B Different organisms

C Same organisms

D None of these

< Previous Question

Next Question >

Q12 When a virus enters a cell and incorporates its RNA or DNA into host DNA, what is this stage called?

A lysogeny

B fermentation

C symbiosis

D synergism

< Previous Question

Next Question >

Q13 The unit of electric flux density is

A N/C

B V/m

C Nm

D A and B

< Previous Question

Next Question >

Q14 _____ anyone _____ a pencil I could borrow?

A do... have

B Does.. have

C Do.. has

D Does.. has

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Q15

A neural pathway that controls an action reflex is called:

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

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Q16 In aromatic carboxylic acids -COOH group is named as_____?

A Substituent

B Parent

C Benzoic acid

D Both b and c

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Q17 The smallest alkane that shows isomerism is _____?

A Ethane

B Butane

C Pentane

D Isopropane

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Q18 Which of the statement is incorrect for XeO_4 ?

A four $p\pi-d\pi$ bonds are present

B four $sp^3 - p \sigma$ bonds are present

C It has a tetrahedral shape

D It has a square planar shape

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Q19 The classification of monohydric alcohols is due to

A hydrogen atom

B carbon atom

C hydroxyl group

D carbonyl group

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Q20 Intermolecular distance is larger in _____?

A Ionic compounds

B Solids

C Covalent compounds

D Liquids

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Q21 $[\text{Fe}(\text{CN})_6]^{4-}$ is called as ____?

A Complex compound

B Transition element ion

C Anion

D Complex anion

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Q22 Nitrogen N_2 molecule has 3 unpaired electron on each atom therefore it shows three bond that are

A 2 sigma & 1 pi bond

B 1 sigma & 2 pi bond

C 3 sigma

D 3 pi bond

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Q23 Any thing under study during a chemical reaction in thermodynamics is called as _____?

A Analyte

B System

C Surrounding

D Boundary

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Q24 Rate determining step of a chemical reaction which occur in more than one step depends upon the

A fastest step

B Slowest Step

C catalyst used

D Temperature of reaction

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Q25

grey and white tin co-exist at temperature

A

128 C

B

13.2 C

C

32-38 C

D

95.5 C

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Q26 Aldehydes and ketones are _____?

A Aromatic compounds

B Acidic compounds

C Carbonyl compounds

D Electrophiles

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Q27

The sequence of amino acids combined in a peptide chain is called_____.

A

Primary structure

B

Secondary structure

C

Tertiary structure

D

Quaternary structure

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Q28

which one of them can conduct electricity in solid state

A

diamond

B

graphite

C

Nail

D

iodine

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Q29

What is the Hybridization of carbon in ethene?

A

 sp^2

B

 sp^3

C

 sp

D

None of these

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Q30

During combustion analysis MgClO_4 is used to absorb _____

A

oxygen gas

B

hydrogen gas

C

water vapors

D

alcohol

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Q31 Which of the following alcohol give iodoform test?

A Propanol

B Methanol

C Ethanol

D Butanol

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Q32

Octane number of n-heptane is_____?

A

0

B

100

C

40

D

98

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Q33

The properties of liquid crystals are intermediate b/w crystals and

A anisotropic liquids

B nematic liquids

C isotropic liquids

D liquids

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Q34 Isoenzymes catalyze_____?

A Catalyze different reaction

B Catalyze same reaction

C Catalyze any reaction

D Catalyze reactions that are from different reactions

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Q35

What is the correct general formula of Grignard reagent?

A

 RMX

B

 R_2MgX

C

 RMgX_2

D

 RMgX

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Q36 The 'm' quantum number describes the _____ of electron

A energy level

B orbital or subshell

C orientation of orbital

D Spin of electron

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Q37

The boiling point of water is lower than HF because of ___ hydrogen bonding

A strong

B moderate

C weak

D constant

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Q38

Electrolysis is carried out in

A

A beaker

B

Flask

C

Evaporating Dish

D

Electrolytic Cell

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Q39

The minimum amount of energy required to remove an electron from its gaseous atom to form an ion is known as

A electron affinity

B ionization energy

C electronegativity

D potential energy

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Q40 A system is the _____ part of universe ?

A Real

B Unreal

C Imaginary

D Both real or imaginary

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Q41 Zero order reactions do not depend upon concentration of

A products

B reactants

C Ions

D radicals

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Q42 Which is the correct order of decreasing acidity of Lewis acids?

A $\text{BBr}_3 > \text{BCl}_3 > \text{BF}_3$

B $\text{BF}_3 > \text{BCl}_3 > \text{BBr}_3$

C $\text{BCl}_3 > \text{BF}_3 > \text{BBr}_3$

D $\text{BBr}_3 > \text{BF}_3 > \text{BCl}_3$

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Q43 Carboxylic acid reduction to alcohol can be achieved by using?

A H_2/Ni

B Pd/C

C NaBH_4

D LiAlH_4

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Q44

A chemical reaction has reached a state of dynamic equilibrium at certain temperature, Which of the statement is incorrect

- A Concentration of the reactants remains constant
- B Products are continuously being formed
- C The rate of forward and backward reactions are same
- D The reaction has stopped completely

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Q45

The increase in size of an anion is due to increase in repulsion of

A

electron-proton

B

electron-electron

C

electron-nucleus

D

proton-nucleus

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Q46

In Peroxides the Oxidation number of Oxygen is

A

-1

B

2

C

-2

D

1

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Q47

In S_N2 reaction, which of the following species is formed?

A

Transition state

B

Intermediate

C

Carbocation

D

Carbanion

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Q48 Tetraethyl lead added to fuel to_____?

A Decrease boiling point

B Prevent heating

C Prevent freezing of fuel

D Prevent knocking

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Q49

What is the empirical formula for the following molecular formula C_5H_{12}

A

 C_5H_{12}

B

 C_5H_6

C

 CH_2

D

 $C_{2.5}H_6$

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Q50 Which of the following is not an Ionic Solid

A NaCl

B KBr

C MgCl_2

D CO

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Q51 Which of the following Compound is not reduced by NaBH_4 ?

A Acetaldehyde

B Acetone

C Carboxylic acid

D Alkene

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Q52

The forces which are most prominent in mixture of Non-polar molecule are _____?

A

Dipole dipole forces

B

Debye forces

C

H-bonding

D

London dispersion forces

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Q53

With impurities like P and S the open hearth furnace is lined with

A

SiO_2

B

Fe_2O_3

C

FeO

D

CaO , MgO

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Q54

Formation of Grignard reagent from alkyl halide and Mg metal takes place in _____?

A

Water

B

Alcohol

C

Anhydrous ether

D

Carbon tetrachloride

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Q55

Those elements in which d or f orbitals are in the process of completion are called

A

Transition elements

B

Typical transition elements

C

Outer transition elements

D

Inner transition elements

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Q56

If a certain atom gains electrons its oxidation number will be

A

Negative

B

Positive

C

zero

D

Unity

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Q57

The measurement of the extent to which electron cloud is distorted is termed as?

A

Polarizability

B

Molecularity

C

Induction

D

Dispersion

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Q57

The measurement of the extent to which electron cloud is distorted is termed as?

A

Polarizability

B

Molecularity

C

Induction

D

Dispersion

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Q58

Tetra ethyl addition to petrol is example of:

A

Positive catalysis

B

Negative catalysis

C

Both a & b

D

None

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Q59 Which of the following is true about arenes?

A Low melting, and low boiling points

B High melting, and high boiling points

C Low melting, and high boiling points

D High solubility in polar solvents

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Q60

If no of moles of products are more than those of reactants, volume in the equilibrium expression appears in

A

denominator

B

Numerator

C

As Exponent

D

None of these

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Q61 Which of the following does not contain COOH group?

A Acetone

B Propanoic acid

C Formic acid

D Picric acid

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Q62

Reaction of ethylmagnesium bromide with acetone produces?

A

Primary alcohol

B

Secondary alcohol

C

Tertiary alcohol

D

Methyl alcohol

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Q63 Which of the following is true in case of induced fit model?

A the substrate changes its shape slightly

B the enzyme changes its shape slightly

C none of them changes shape

D both changes shapes

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Q64

Decreasing V_{max} in uncompetitive inhibition also decreases?

A

 K_m

B

 K_o

C

 V_o

D

both A and B

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Q65

Blood group AB can be donated to:

A

A

B

AB

C

B

D

All of the above

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Q66

The lighter, inner section of the brain is called:

A

white matter

B

Gray matter

C

Reflex arc

D

Medulla

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Q67

Rapid movement of leaves of mimosa on touching is an example of?

A

Tropic movements

B

Growth movement

C

Nastic movement

D

Turgor movement

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Q68 Paramyxoviruses cause which disease?

A influenza

B smallpox

C mumps and measles

D AIDS

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Q69 In parthenocarpy which levels are high in ovaries?

A gibberellins

B cytokinins

C auxins

D all of these

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Q70 The ability to pass on genes is defined as which of the following?

A differential reproduction

B evolution

C natural selection

D fitness

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Q71

Which of the following is a chemical link between catabolism and anabolism?

A

AMP

B

ATP

C

ADP

D

All of these

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Q72 What is the resolution power of a compound microscope?

A 2 micrometer

B 2-4A

C 24 micrometer

D 24A

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Q73

The attraction between water molecules and cell wall of xylem is termed as:

A

cohesion

B

tension

C

adhesion

D

imbibition

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Q74 What are Autophagosomes?

A Those lysosomes which eat parts of their own cells to generate energy.

B Those lysosomes which eat old and worn out cellular organelles.

C Lysosomes which help in extracellular digestion

D both a and b

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Q75

Which is not the characteristic of triploblasts?

A

They may be coelomate pseudocoelomate or acoelomate

B

They are included in grade bilateria

C

All of them have digestive system

D

All of them have blood vascular system

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Q76

What is the name of the tube that carries the sperm from the testes to the urethra?

A

Penis

B

seminal vesicles

C

Prostate gland

D

sperm duct

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Q77

The first group of invertebrates to have a closed circulatory system:

A

Nematodes

B

Platyhelminthes

C

Echinodermata

D

None of the above.

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Q78

When one can hydrolyze the proteins, these could be the products

A

amino acids

B

nucleotides

C

fatty acids

D

monosaccharides

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Q79 Chlorophyll molecule contains which ion as a central metal ion?

A Fe^{2+}

B Zn^{2+}

C Cu^{2+}

D Mg^{2+}

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Q80

Reflex action is controlled by

A

Peripheral nervous system

B

Central nervous system

C

autonomic nervous system

D

Circulatory system

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Q81

Choose one of the actions caused by skeletal muscle:

A

constriction of blood vessel

B

heartbeat

C

dilation of pupil

D

eye movements

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Q82

How does human sperm locomote?

A

flagella

B

cilia

C

pili

D

all of these

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Q83

The venous blood in tissues has carbon dioxide:

A

19.6 ml/100 ml of blood

B

50 ml/100 ml of blood

C

54 ml/100 ml of blood

D

96 ml/100 ml of blood

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Q84

Evolution of pollen tube is parallel to the evolution of which of the following?

A

leaf

B

flower

C

seed

D

plant

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Q85

Many types of lipids exist in nature. Triglyceride is also known as?

A

Neutral lipid

B

natural lipid

C

wax

D

all of these

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Q86

Change in the frequency of alleles at a locus that occurs by chance is which of the following phenomenon?

A

mutation

B

selection

C

non-random mating

D

genetic drift

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Q87 Humans regulate their internal body temperature within a very narrow range. This is an example of?

A homeostasis

B evolution

C genetics

D metabolism

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Q88

The number of afferent lymph vessels in a lymphatic system is:

A 1

B 2

C 3

D Numerous

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Q89 Gut in pseudocoelomates is made from which of the following?

A Ectoderm

B Mesoderm

C Endoderm

D all of these

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Q90

The matrix surrounding the grana in the inner membrane of the chloroplast is called?

A

cytosol

B

frets

C

stroma

D

intergranal lamellae

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Q91 Flagella are basically composed of a

A protein

B chemical

C enzyme

D None of above

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Q92

Which of the following is found in bacterial cells, but not in mature red blood cells?

A

Nucleus

B

DNA

C

cell membrane

D

mitochondria

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Q93

Which bond provides stability to complex carbohydrate molecules?

A

C-H

B

C-N

C

C-O

D

C-C

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Q94

A hydrostatic skeleton is present in _____.

A Arthropods

B Fishes

C Annelids

D Nematodes

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Q95

What is an example of an oviparous mammal?

A

Penguin

B

Shark

C

Spiny anteater

D

Elephant

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Q96

The most important photosynthetic pigment is?

A

Chlorophyll a

B

Chlorophyll b

C

Xanthophyll

D

Carotenes

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Q97

Carolus Linnaeus was believer of which of the following?

A

special creation

B

natural selection

C

catastrophism

D

Inheritance of acquired characters

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Q98

The smaller tubes within the chest cavity having cartilaginous plates are known as

A pharynx

B bronchioles

C bronchi

D Both B and C

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Q99

What are the different stages of the calvin cycle?

A

Carbon fixation

B

RUBP

C

Reduction

D

A and C

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Q100

Photorespiration in C4 plants starts from

A

phosphoglycerat

B

phosphoenolpyruvate

C

glycerate

D

glycine

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Q101

Which of the following is pure form of cellulose?

A

silk

B

wool

C

cotton

D

paper

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Q102

Where does the dark reaction of photosynthesis takes place?

A

Thylakoid

B

Grana

C

Stroma

D

all of these

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Q103

Substrate for succinic dehydrogenase is:

A

Malonic acid

B

Malic acid

C

Fumaric acid

D

Palmitic acid

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Q104

Darwin was greatly influenced by

A

essay on population by Malthus

B

Lamark's theory

C

L-Miller's evidence for origion of life

D

Mendel's paper on inheritance

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Q105

Ribosomes are chemically composed of which of the following?

A protein

B DNA

C RNA

D both a and c

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Q106

Catalysts that increase the rate of biological chemical reaction are called?

A proteins

B vitamins

C enzymes

D minerals

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Q107

Inheritance in man is traced by which of the following?

A

Mathematical method

B

Statistical method

C

Genetic method

D

Pedigree method

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Q108

The stretch reflex is a:

A

Monosynaptic reflex

B

Polysynaptic reflex

C

Hemi Synaptic reflex

D

None of these

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Q109

The product of succinic acid by the action of the enzyme is which of the following?

A

fumaric acid

B

malonic acid

C

citric acid

D

pyruvic acid

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Q110

Which statement correctly identifies a competitive inhibitor and a substrate molecule?

A They have the same chemical properties.

B They have the same physical properties.

C They have the same chemical structure.

D None of the above.

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Q111

The follicle cells, after release of the egg, are modified to form a special structure called:

A Endometrium

B Perimetrium

C Corpus luteum

D None of these

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Q112

Which of the following characters is not typical to class Mammalia?

A

Alveolar lungs

B

Seven cervical vertebrae

C

Thecodont dentition

D

Ten pairs of cranial nerves

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Q113

Which substances can cross plasma more easily?

A

starch

B

protein

C

lipid soluble

D

ions

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Q114

Which of the following is a compensation point?

A

Leaves respire and utilize O_2 and release CO_2 .

B

Photosynthesis and respiration occur at same rate. So there is not net exchange of gases between atmosphere and plants.

C

Rate of photosynthesis increases, so do the O_2 production, with a net release of oxygen coupled with the uptake of CO_2

D

Rate of respiration becomes more than rate of photosynthesis. 16 Net yield of H_2O in Photosynthesis is

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Q115

An example of convergent evolution is best represented by which of the following?

A

Teeth of domestic dog, teeth of a wolf

B

Wings of *Geospiza magnirostris*, wings of *Geospiza fortis*

C

Wing of Hawkmoths, the wing of hawks

D

all of these

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Q116

The smallest bacterium is

A

Mycoplasma

B

Lactobacillus

C

Pseudomonas

D

Escherichia coli

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Q117

Which type of sensory structures carrying the touch sensations are present in papillae extending into ridges of the fingertips?

A Hair end organs

B Pacinian corpuscles.

C Meissner's Corpuscles

D all of these

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Q118

Your neighbor has a flower garden in which there are red flowers and white flowers. These flowers are diploid organisms, and flower color is an autosomal trait. The gene for red flowers (R) is dominant, while the gene for white flowers (r) is recessive. Which of the following could be the genotype of a red flower?

A Rr B RR , Rr , or rr C rr D RR or Rr

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Q119

Which of these is the best treatment for osteoarthritis?

A

bed rest

B

exercise

C

cast

D

None of these

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Q120

Structures that were once functional in the past but no longer serve a purpose due to evolutionary adaptations and physiological changes are referred to as?

A vestigial

B analogous structures

C homologous structures

D none of these

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Q121

A long polypeptide that is cut up to generate several small proteins

A

polyprotein

B

polymerase

C

polyisomerase

D

none of these

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Q122

The maximum capacity of 100 ml blood to absorb oxygen is:

A

10 ml

B

20 ml

C

30 ml

D

45 ml

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Q123

Phase difference between two particles of a medium lying between two consecutive nodes is:

A

Zero

B

$\pi/2$

C

$\pi/4$

D

π

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Q124 Ohm's law is valid at _____ temperatures

A Constant

B Varying

C All of them

D None of them

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Q125

$$\cos \theta = \Phi /$$

A

BA

B

A

C

B

D

 B^2

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Q126

The rate of change of angular velocity is called:

A

angular displacement

B

angular acceleration

C

angular velocity

D

acceleration

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Q127

If a car starts from rest and reaches 20 m/s velocity in 10 m distance then acceleration is

A

20 m/s²

B

10 m/s²

C

5 m/s²

D

2m/s²

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Q128

Which is the unit of energy

A

joule

B

erg

C

unit(Kwh)

D

all of these

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Q129

What is the unit of decay constant?

A second

B minute

C hour

D $(\text{sec})^{-1}$

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Q130

Which element has three isotopes?

A

H

B

O

C

Cl

D

none of these

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Q131

According to Faraday law induced voltage is produced by change in

A

electric field

B

magnetic field

C

both a or b

D

position

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Q132

Rectifier is a device which converts

A

AC to DC

B

DC to AC

C

AC to triangular current

D

DC to triangular current

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Q133

As the wavelength of light used increases, the distance between bright fringes in the interference pattern:....

A

increases

B

decreases

C

remains same

D

none of these

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Q134

What does the constant N represent in the equation of state for an ideal gas $PV=NkT$?

A

number of molecules of gas

B

number of moles of the gas

C

number of nucleons

D

number of protons

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Q135

Work done in pulling up a block of wood weighing 2 kN for a length of 10 m on a smooth plane inclined at an angle of 15 degree with the horizontal is

A 4.36 kJ

B 5.17 kJ

C 8.91 kJ

D 9.82 kJ

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Q136

The sensitivity of a potentiometer can be increased by_____

A

increasing the e.m.f. of the primary cell

B

increasing the potential gradient

C

increasing the length of the potentiometer wire

D

decreasing the length of the potentiometer wire

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Q137 Among the following four spectral regions, in which of them, the photon has the highest energy in?

A infrared

B violet

C blue

D ultraviolet

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Q138

An arc of length equal to the circumference of a circle subtends an angle?

A

π radian

B

2π radian

C

$\pi/2$ radian

D

4π radian

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Q139

A transformer is used to light 100 W 25 volt lamp from 250 Volt ac mains. The current in the main cable is 0.5 A. Calculate the efficiency of the transformer

A 50%

B 60%

C 90%

D 80%

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Q140

Electric field lines

A

never cross each other

B

can cross each other

C

depends on shape of charge

D

Not enough information

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Q141

If the system goes from two different paths to same final state then change in internal energy for both systems is_____

A

same

B

different

C

may be same

D

Not enough information

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Q142

Maximum emf generated in a generator is

A

$$\varepsilon_0 = N\omega AB \sin \theta$$

B

$$\varepsilon_0 = \varepsilon \sin \theta$$

C

$$\varepsilon = \varepsilon_0 \sin \theta$$

D

$$\varepsilon_0 = N\omega AB$$

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Q143

The frequency of the incident photon after compton effect will :

A remain constant

B Increases

C Decreases

D None of these

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Q144

Emf becomes equal to terminal potential difference when

A circuit is closed

B current is max

C circuit is open

D all of these

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Q145

In full wave rectifier with input frequency 50 Hz the ripple in the output is mainly of frequency

A 25 Hz

B 50Hz

C 100Hz

D zero

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Q146

A current of 16 amperes divides between two branches in parallel of resistances 8 ohms and 12 ohms respectively. The current in each branch is

A 6.4 A, 6.9 A

B 6.4 A, 9.6 A

C 4.6 A, 6.9 A

D 4.6 A, 9.6 A

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Q147

In a standing waves, the distance between two consecutive nodes is:

- A equal to one wavelength
- B equal to two wavelength
- C equal to half of wavelength
- D equal to quarter of wavelength

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Q148

Electron cannot reside inside nucleus is explained by

A

Compton effect

B

Photoelectric effect

C

Zeeman effect

D

Uncertainty principle

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Q149

The bridge rectifier is preferred to an ordinary two diode full wave rectifier because

A

it needs much smaller transformer for the same output

B

no center tap required

C

less PIV rating per diode

D

All of the above

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Q150

A simple pendulum has mass M , length L and time period T . What is the period of oscillation of the pendulum with mass $4M$ and length $0.49L$?

A $0.7T$

B T

C $2T$

D $3T$

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Q151

The core of earth is hot due to

A fission reactions

B fusion reactions

C frictional forces

D all of these

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Q152

Peak voltage in the output of half wave rectifier is 10V so dc component of output voltage is

A

 $10\sqrt{2}$

B

 $10/\sqrt{2}$

C

 $10/\pi$

D

 10π

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Q153

Electric field lines from a point charge _____ each other

A

Converges towards

B

diverges away from

C

remain equispaced with

D

None of these

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Q154

In ground state, high energy photons will be

A

reflected

B

absorbed

C

transmitted

D

any of these

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Q155

Projectile when launched at 90 degree with respect to horizontal then its trajectory is

A

Parabolic

B

periodic

C

hyperbolic trajectory

D

linear

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Q156

Current and magnetic field are always

A

perpendicular

B

parallel

C

circular

D

none of these

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Q157

Motional emf induced in a coil is independent of

A number of turns

B change in flux

C change in time

D Resistance

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Q158

Ozone reflects ____ radiation from sun back into space

A

IR

B

UV

C

alpha

D

all of these

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Q159

A square loop of side 4 m is placed in magnetic field of 10 T, surface of the loop is making angle with the field 60 degree. What will be the flux?

A 160 weber

B 80 weber

C 40 weber

D 80 weber

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Q160

If we are standing in bus and when conductor's apply a brake then we feel

A pseudo force pushes backwards

B pseudo force pushes forwards

C real force pushes backwards

D real force pushes forwards

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Q161

Which rays need medium to travel

A

x-rays

B

beta rays

C

gamma rays

D

no radiation need medium to travel

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Q162

The flux is the region where magnetic field

A

changes direction

B

changes strength

C

changes polarity

D

no change occur

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Q163

Half life of Au-198 is 2.7 days. What will be the activity of 1 mg of Au-198?

A 120 Ci

B 200 Ci

C 240 Ci

D 280 Ci

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Q164

The sun gives light at the rate of 1500 W/m^2 of area perpendicular to the direction of light. Assume the wavelength of light as $5000 \text{ \AA}$. Calculate the number of photons/s arriving at 1 m^2 area at that part of the earth.

A

$$4.770 \times 10^{21}$$

B

$$3.770 \times 10^{11}$$

C

$$3.770 \times 10^{21}$$

D

$$3.770 \times 10^{22}$$

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Q165

A tuning fork A produces 4 beats with another tuning fork B. if the frequency of tuning fork B is 320 Hz, then the frequency of tuning fork A is:

A 320×4

B $320 / 4$

C $320 + 4$

D 320

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Q166

Mass m_1 has a velocity of 0 m/s and mass m_2 has a velocity of 5 m/s . Mass $m_1 > m_2$. Which one has larger interior?

A m_2

B m_1

C both m_1 and m_2

D not enough information

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Q167

If a cell of emf 2V and internal resistance 0.5 ohm is connected across a resistance R, the current that flows is same as that when a cell of emf 1.5 V and internal resistance 0.3 ohm is connected across the same resistor. Then R= _____ Ohm.

A

0.3

B

0.6

C

0.5

D

0.75

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Q168

The phase angle between two points is 3π . The distance between these points is 15 cm. What is the wavelength of the wave?

A 30 cm

B 45 cm

C 5 cm

D 10 cm

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Q169

For a metal rod of length L and moving with speed v in perpendicular to magnetic field then motional emf at its end is

A lvB

B lvB^2

C lv^2B

D None of these

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Q170

In a centre tap full wave rectifier if V_m is the peak voltage across the secondary of transformer, the maximum voltage across reverse bias is

A V_m

B $V_m/\sqrt{2}$

C $2V_m$

D $V_m/3$

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Q171

The activity of a certain nuclei decreases to 15 % of its original value in 10 days. Find its half life?

A 2 days

B 2. days

C 3.65 days

D 4 days

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Q172

I found this bangle (A) while digging (B) in the backyard.(C) I don't know who it belonged to. (D)

A

I found this bangle

B

while digging

C

in the back yard.

D

I don't know who it belonged to.

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Q173

Michael _____ absent yesterday.

A

is

B

was

C

were

D

being

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Q174

When I was young, I _____ (use) play cricket a lot.

A

use

B

used

C

used to

D

use to

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Q175

Choose the correct sentence.

A

Dr Hussain works at city hospital in gulberg.

B

Dr Hussain works at City Hospital in Gulberg?

C

Dr Hussain works at City Hospital in Gulberg.

D

Dr Hussain works at city hospital in Gulberg.

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Q176

Could you _____ a photo of me in front of this building? I really like the background.

A

take

B

check

C

make

D

paint

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Q177

Jane _____ to bed at 10 o'clock on weekdays.

A

goes

B

is going

C

go

D

going

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Q178

Choose the correct sentence.

- A The train stopped at Karachi, Hyderabad, Bahawalpur, Multan and Lahore before it reached Rawalpindi.
- B The train stopped at Karachi, Hyderabad, bahawalpur, Multan and Lahore before it reached rawalpindi.
- C The train stopped at Karachi Hyderabad Bahawalpur, Multan and Lahore before it reached Rawalpindi.
- D The train stopped at Karachi, Hyderabad, Bahawalpur multan and Lahore before it reached rawalpindi.

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Q179

I have

A

I've

B

I've

C

I'hve

D

Ih've

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Q180

I don't want to go.

A

simple

B

negative

C

complex

D

None

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Q181

The baby cried most of _____ night.

A

a

B

an

C

the

D

no article

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Q182

Choose the correct spelling of the word

A

irresistable

B

irresistible

C

iresistible

D

irresistibel

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Q183

Bilal _____ (live) with his brother.

A

lives

B

is living

C

has lived

D

had lived

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Q184

Danial is playing tennis _____ Sunday.

A

in

B

on

C

at

D

of

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Q185

Choose the correct sentence.

A

Mother said "leave the dishes on the table until we have finished eating."

B

Mother said "Leave the dishes on the table until we have finished eating."

C

Mother said, "Leave the dishes on the table until we have finished eating."

D

Mother said, leave the dishes on the table until we have finished eating.

Q186

Choose the correct spelling of the word

A

adress

B

address

C

addres

D

adrrss

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Q187 Find the error?

A The staff at the university

B library deserve recognition

C for helping to locate

D the many sources needed for the successful completion of my doctoral dissertation.

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Q188

Sara _____ (unlock) the door and _____ (go) into her apartment.

A unlocking... going

B unlocked... went

C unlocked... gone

D unlocks... is going

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Q189

Fact1 All drink mixes are beverages Fact 2 All beverages are drinkable Fact 3 All beverages are red If the above three statements are facts than which of the following statement will also be a fact I. Some drink mixes are red II. All beverages are drink mixes. III. All red drink mixes are drinkable

A I only

B II only

C III only

D None of them is a fact

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Q190 Statements (I) She topped in her collage (II) She is hard-working)

- A both statements are of some common cause
- B statement 1 is the cause then 2 is its effect
- C statement 2 is the cause then 1 is its effect.
- D both of the statements are effect of independent causes

Q191

As attractive is to beauty so, hope is to

A

Faith

B

Politely

C

Talk

D

Happiness

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Q192

Statement Should there be a total ban on tobacco products and smoking in India? Arguments (I) Yes. It is wrong to smoke away millions of money. (II) No. It will throw thousands of workers in the tobacco industry out of employment. (III) No. The government will lose huge amount of money as it will not earn by way of taxes on these products.

- A None is strong
- B Only I and II are strong
- C Only II is strong
- D Only II and III are strong

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Q193 CMM, EOO, GQQ, _____, KUU

A GRR

B GSS

C ISS

D ITT

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Q194

Slope of the curve can be determined by

A

Area under the curve

B

calculating length of curve

C

Drawing a tangent to the curve

D

All of these

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Q195

According to lock and key model the substrate acts as a?

A

lock

B

key

C

both a and b

D

none of these

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Q196

Statement: The life today is too fast, demanding and full of variety in all aspects which at times leads to stressful situations. Number of suicide cases among teenagers is on increase.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

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Q197

Number of subsets of a set of order three is

A

4

B

8

C

6

D

Both A and B

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Q198

I. There are orders by the high court to clean Karachi. II. More than 500 people died in Karachi due to land pollution.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

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Q199

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : "Please do not wait for me, I may be late, start taking lunch as soon as the guests arrive." - A message from a Director of a Company to his office managers. Assumptions : I. Keeping guests waiting is not desirable. II. Lunch may not be ready in time.

A Only assumption I is implicit

B Only assumption II is implicit

C Either I or II is implicit

D Both A and B

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Q200

Discernible and Palpable have _____ number of same letter

A

2

B

3

C

5

D

4

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Q201

The addition of HBr to an unsymmetrical alkenes follows?

A

Direct addition

B

Markovnikov's addition

C

Anti Markovnikov's addition

D

Dehydration

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Q202

It is the brown colored gas

A

 N_2

B

 NO_2

C

 H_2

D

 O_2

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Q203

Fertilization of human egg occurs in:

A ovary

B uterus

C oviduct (fallopian tube)

D cervix

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Q204

If two point charges of charge q_1 and q_2 are placed at distance d . The force between them is proportional to:...

A $q_1 + q_2$

B $q_1 - q_2$

C $q_1 \text{ ----- } q_2$

D $q_1 * q_2$

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Q205

A force of $F = 1 + y$ N is acting in y direction, work done by this force to move the particle from $y = 0$ to $y = 1$ m

A 0.5 J

B 1 J

C 2 J

D 1.5 J

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Q206

Kinetic energy of the body is increased by the 21 %. what is the percentage change in the linear momentum of the body

A 0.21

B 0.22

C 0.11

D 0.1

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Q207

Which molecule passes the mitochondrial membrane to begin the krebs cycle?

A ATP

B ADP

C NADH

D Acetyl coA

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Q208

A closed container contains an ideal gas. Which of the following changes will result in decrease in temperature?

A volume = decrease temperature = decrease

B volume = decrease temperature = increase

C volume = increase temperature = decrease

D volume = increase temperature = increase

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Q209

A stationary wave is set up in a pipe of length L , which is open from both ends. There are three nodes. How many antinodes are there in the stationary wave?

A 2

B 3

C 4

D 6

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Q210

I'm now going to give you 10 tips for running a really successful web site.

A

invaluable

B

valueless

C

unworthy

D

unprofitable

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